

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-7. (Canceled)

8. (Currently Amended) ~~The storage media of claim 6;~~ A storage media for storage of data thereon, the storage media comprising:

a first layer, the first layer being substantially transparent to a predetermined radiant energy used for reading the data; and

a second layer formed on the first layer and being substantially opaque to the radiant energy, the second layer having a pattern comprising a plurality of holes, each of the holes having a largest dimension which is greater than a wavelength of the radiant energy, the data being stored as the presence or absence of a hole in the pattern, wherein the pattern comprises the plurality of holes arranged along a helix beginning near a center of the storage media and extending spirally outward, each successive pass of the helix being separated from a previous pass of the helix by a track pitch, wherein a distance between successive holes is in a range of about 30 to 100 nanometers.

9. (Currently Amended) ~~The storage media of claim 6;~~ A storage media for storage of data thereon, the storage media comprising:

a first layer, the first layer being substantially transparent to a predetermined radiant energy used for reading the data; and

a second layer formed on the first layer and being substantially opaque to the radiant energy, the second layer having a pattern comprising a plurality of holes, each of the holes having a largest dimension which is greater than a wavelength of the radiant energy, the data being stored as the presence or absence of a hole in the pattern, wherein the pattern comprises the plurality of holes arranged along a helix beginning near a center of the storage media and extending spirally outward, each successive pass of the helix being separated from a previous pass of the helix by a track pitch, wherein the track pitch is about 100 nanometers.

10. (Currently Amended) ~~The storage media of claim 6;~~ A storage media for storage of data thereon, the storage media comprising:

a first layer, the first layer being substantially transparent to a predetermined radiant energy used for reading the data; and

a second layer formed on the first layer and being substantially opaque to the radiant energy, the second layer having a pattern comprising a plurality of holes, each of the holes having a largest dimension which is greater than a wavelength of the radiant energy, the data being stored as the presence or absence of a hole in the pattern, wherein the pattern comprises the plurality of holes arranged along a helix beginning near a center of the storage media and extending spirally outward, each successive pass of the helix being separated from a previous pass of the helix by a track pitch, wherein the plurality of holes are circular and the largest dimension is a diameter of the circular holes, the diameter of the holes being about 50 nanometers, a distance between successive holes being about 100 nanometers, and the track pitch being about 100 nanometers.

11. (Currently Amended) ~~The storage media of claim 6;~~ A storage media for storage of data thereon, the storage media comprising:

a first layer, the first layer being substantially transparent to a predetermined radiant energy used for reading the data; and

a second layer formed on the first layer and being substantially opaque to the radiant energy, the second layer having a pattern comprising a plurality of holes, each of the holes having a largest dimension which is greater than a wavelength of the radiant energy, the data being stored as the presence or absence of a hole in the pattern, wherein the pattern comprises the plurality of holes arranged along a helix beginning near a center of the storage media and extending spirally outward, each successive pass of the helix being separated from a previous pass of the helix by a track pitch, wherein the plurality of holes are circular and the largest dimension is a diameter of the circular holes, the diameter of the holes being about 30 nanometers, a distance between successive holes is about 60 nanometers, and the track pitch being about 100 nanometers.

12 - 14. (Canceled)

15. (Withdrawn) A method for making a storage media having data stored thereon, the method comprising:
- forming a first layer, the first layer being substantially transparent to a predetermined first radiant energy used for reading the data;
 - forming a second layer on the first layer which is substantially opaque to the first radiant energy; and
 - forming a pattern comprising a plurality of holes in the second layer, each of the holes having a largest dimension which is greater than a wavelength of the first radiant energy, the data being stored as the presence or absence of a hole in the pattern.
16. (Withdrawn) The method of claim 15, wherein the first layer is polycarbonate formed by a casting process.
17. (Withdrawn) The method of claim 15, wherein the second layer is a metalization coating formed by sputtering the metalization on the first layer.
18. (Withdrawn) The method of claim 15, wherein the plurality of holes are formed in a circular shape and the largest dimension is a diameter of the circular shaped holes.
19. (Withdrawn) The method of claim 15, wherein the pattern of the plurality of holes are arranged along a helix beginning near a center of the storage media and extending spirally outward, each successive pass of the helix being separated from a previous pass of the helix by a track pitch.
20. (Withdrawn) The method of claim 19, wherein the plurality of holes are formed in a circular shape and the largest dimension is a diameter of the circular shaped holes, the diameter of the holes being in a range of about 30 to 100 nanometers.
21. (Withdrawn) The method of claim 19, wherein a distance between successive holes is in a range of about 30 to 100 nanometers.
22. (Withdrawn) The method of claim 19, wherein the track pitch is about 100 nanometers.

23. (Withdrawn) The method of claim 19, wherein the plurality of holes are formed in a circular shape and the largest dimension is a diameter of the circular shaped holes, the diameter of the holes being about 50 nanometers, a distance between successive holes being about 100 nanometers, and the track pitch being about 100 nanometers.
24. (Withdrawn) The method of claim 19, wherein the plurality of holes are formed in a circular shape and the largest dimension is a diameter of the circular shaped holes, the diameter of the holes being about 30 nanometers, a distance between successive holes is about 60 nanometers, and the track pitch being about 100 nanometers.
25. (Withdrawn) The method of claim 15, further comprising forming a third layer on the second layer, the third layer being substantially transparent to the first radiant energy.
26. (Withdrawn) The method of claim 15, further comprising forming the storage media in a circular shape and having a data storage area having an inner diameter of about 25 millimeters and an outer diameter of about 115 millimeters.
27. (Withdrawn) The method of claim 15, wherein the plurality of holes are formed by x-ray lithography.
28. (Withdrawn) The method of claim 15, wherein the plurality of holes are formed by melting material in the second layer.
29. (Withdrawn) The method of claim 15, wherein the plurality of holes are formed by ablating material in the second layer.
30. (Withdrawn) The method of claim 15, wherein the plurality of holes are formed by a second radiant energy having a wavelength less than a wavelength of the first radiant energy.
31. (Withdrawn) The method of claim 30, wherein the second radiant energy is selected from a group consisting of ultraviolet light, x-rays, and electron beams.
- 32 - 55. (Canceled)